Title (en)
Coding method, coding apparatus, decoding method and decoding apparatus using subsampling

Title (de)
Verfahren und Gerät zur Kodierung/Dekodierung unter Verwendung der Unterabtastung

Title (fr)
Procédé et dispositif de codage et de décodage utilisant le sous-échantillonnage

Publication
EP 1248468 A3 20050824 (EN)

Application
EP 02006349 A 20020321

Priority
JP 2001093675 A 20010328

Abstract (en)
[origin: EP1248468A2] A coding apparatus includes: a context generator generating a context signal from a reconstructed symbol; a predictor generating a prediction signal indicating a prediction value which is a prediction of a symbol to be coded, based on the context signal, and a prediction error signal which is a difference between the prediction value and the symbol; a quantizer generating a quantized prediction error signal by quantizing the prediction error signal; an encoder coding the quantized prediction error signal by referring to the context signal; an inverse quantizer subjecting the quantized prediction error signal to inverse quantization so as to generate a reconstructed prediction error signal; an inverse predictor subjecting the reconstructed prediction error signal to inverse prediction so as to generate a reconstructed sampled signal; a subsampling control circuit generating a subsampling control signal indicating whether or not the symbol should be subject to subsampling; and an interpolator referring to the subsampling control signal so as to subject to interpolation the reconstructed sampled signal corresponding to the symbol subject to subsampling, characterized in that the coding apparatus codes symbols while adaptively employing subsampling. <IMAGE>
[origin: EP1248468A2] A sub-sampling control circuit (8) generates control signal indicating whether symbol is to be sub-sampled at the end of encoding process. An interpolator (7), interpolates the reconstructed sampled signal corresponding to the symbol subject to sub-sampling, based on control signal. Independent claims are included for the following: (1) Decoding apparatus; (2) Encoding method; and (3) Decoding method.

IPC 1-7
H04N 7/34; H04N 7/46

IPC 8 full level
H04N 19/50 (2014.01); H03M 7/36 (2006.01); H04N 1/41 (2006.01); H04N 19/124 (2014.01); H04N 19/132 (2014.01); H04N 19/134 (2014.01); H04N 19/136 (2014.01); H04N 19/137 (2014.01); H04N 19/147 (2014.01); H04N 19/182 (2014.01); H04N 19/186 (2014.01); H04N 19/196 (2014.01); H04N 19/27 (2014.01); H04N 19/59 (2014.01); H04N 19/593 (2014.01); H04N 19/91 (2014.01)

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EP 1248468 A2 20021009; EP 1248468 A3 20050824; CA 2376720 A1 20020928; CA 2376720 C 20051122; JP 2002290243 A 20021004; US 2002141649 A1 20021003; US 6898322 B2 20050524

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